

CLAIMS

1. Calibration device for calibrating extruded continuous profiles, in particular tubes, comprising a plurality of segment rings which are disposed behind one another and include individual segments (18, 18', 18'') and whose inner surface jointly define a calibrating opening, wherein
 - segments (18, 18', 18'') disposed behind one another in axial direction are combined to a segment block (16),
 - the individual segments (18, 18', 18'') of each segment block (16) are arranged on a support structure (30, 30'),
 - the segment blocks (16) are received in substantial circular manner in a housing (12, 14) such that axially adjacent segments (18, 18', 18'') partially overlap in each position in circumferential direction, and
 - each support structure (30, 30') is connected with at least one mounting and operating device (20, 20') which restrains the individual segment blocks (16), associated to a respective support structure (30, 30'), in the housing (12, 14), and enables an adjustment of each individual segment block (16) in radial direction,characterized in that
each mounting and operating device (20, 20') is made of two parts, wherein a first part (42, 60) is connected with the support structure (30, 30'), and a second part (40, 62) is received in the housing (12, 14), and both parts are connected with one another in a separable manner.
2. Calibration device according to claim 1,
characterized in
that the mounting and operating device (20, 20') is constructed as spindle drive, wherein a spindle (20, 20') with an outer thread portion being arranged on the support structure (30, 30'), and the outer thread portion interacts with a gear nut (22) which is rotatably driven via a further drive

element, and wherein the spindle (20, 20') is made of two parts, with a first part (42, 60) which is connected to the support structure (30, 30'), and a second part (40, 62) which includes the outer thread portion.

3. Calibration device according to claim 2,
characterized in
that the second part (40) of the spindle, received in the housing (12, 14), is configured in the form of a rod with an outer thread.
4. Calibration device according to claim 2 or 3,
characterized in
that the support structure (30, 30') for the individual segments (18, 18', 18'') of a segment block (16) includes at least one rod (52, 54) on which the individual segments (18, 18', 18'') are lined up, and the rod (52, 54) is received in a bore (46) of the first part of the spindle (42, 60).
5. Calibration device according to one of the claims 2 to 4,
characterized in
that two spindles (20, 20') are provided which are disposed on the support structure (16) in axially offset relationship.
6. Calibration device according to claim 2,
characterized in
that the spindle (20') includes a first spindle mounting (60) and a spindle rod, wherein the spindle mounting (60) is connected to the support structure and the spindle rod is received at substantial precision fit in a spindle sleeve (62) provided with an outer thread, and wherein the spindle rod, the spindle mounting (60) and the spindle sleeve (62) are securable relative to one another.

7. Calibration device according to claim 6,
characterized in
that a thread is provided on the end of the spindle rod in opposition to the support structure (30, 30'), and the spindle sleeve (62) is securable in relation to the spindle rod by threadably engaging a nut (64) upon the thread.